

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|------------------------------|------------------|---------|------------------|
| L1 | 155 | low adj initial adj resistance | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/15 07:51 |
| L2 | 0 | L1 near5 util\$1 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/15 07:51 |
| L3 | 1 | L1 near5 before | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/15 07:52 |
| L4 | 7 | L1 near5 after | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/15 07:55 |
| L5 | 99 | high adj resistance adj after | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/15 08:23 |
| L6 | 9854 | (high adj resistance) with (low adj resistance) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/15 08:24 |
| L7 | 943 | (high adj resistance) with (low adj resistance) with (after before until depend\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/15 08:25 |
| L8 | 70 | 7 with select\$3 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/15 08:44 |
| L9 | 5818 | varistor | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/15 08:45 |
| L10 | 19 | 9 near low near5 high | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/15 08:58 |
| L11 | 98 | 9 near5 low near5 high | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/15 08:45 |
| L12 | 2 | 9 near5 low near5 high near5 (after before) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/15 08:45 |
| L13 | 44 | 11 with resist\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/15 09:32 |
| L14 | 0 | low adj resisr\$3 adj3 during | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/15 09:33 |
| L15 | 18 | low adj resist\$3 adj3 during | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/15 11:03 |

EAST Search History

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|-----|-------|--|------------------------------|----|-----|------------------|
| L16 | 17 | resistance near proportional near impedance | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/15 11:08 |
| L17 | 1 | "4335417".pn. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/15 11:39 |
| L18 | 1 | "5095282".pn. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/15 11:39 |
| S1 | 1 | full near3 power near5 (after until) near3 recogni\$5 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 09:07 |
| S2 | 134 | power near5 (after until) near3 recogni\$5 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 09:08 |
| S3 | 66 | power near5 ((after until) adj3 recogni\$5) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 10:07 |
| S4 | 0 | (recogni\$5 near3 card) near5 (pull adj2 (up down)) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 10:20 |
| S5 | 76 | adjust\$3 near5 (after until) near3 recogni\$5 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 10:45 |
| S6 | 0 | (after adj3 select\$3 adj3 mode) near5 resist\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 10:46 |
| S7 | 862 | (after adj3 select\$3 adj3 mode) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 10:47 |
| S8 | 7551 | before with after with mode | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 10:48 |
| S9 | 52 | S8 with resist\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 10:51 |
| S10 | 18471 | low near3 before | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 10:52 |
| S11 | 75215 | high near3 after | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 10:52 |
| S12 | 210 | S10 near5 S11 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 10:53 |

EAST Search History

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|-----|--------|---|------------------------------|----|-----|------------------|
| S13 | 5 | S12 with resist\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 10:54 |
| S14 | 2 | S12 with select\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 10:58 |
| S15 | 0 | S12 with mode\$1 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 10:59 |
| S16 | 21 | (after near3 mode) near5 (select\$3 near3 high) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 11:12 |
| S17 | 78312 | detect\$3 near3 type | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 11:14 |
| S18 | 261921 | (select\$3 adjust\$3 chang\$3 switch\$3) near3 high | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 11:15 |
| S19 | 37 | S17 near5 S18 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 11:37 |
| S20 | 1802 | (based adj3 detect\$3) near5 high | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 11:40 |
| S21 | 6 | (based adj3 (detect\$3 near3 type)) near5 high | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 11:39 |
| S22 | 18 | (based adj3 detect\$3) near5 ((select\$3 adjust\$3) near3 high) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 12:52 |
| S23 | 52 | ((remain\$4 held hold) near3 low) near5 (until near3 detect\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 12:52 |
| S24 | 212 | (impedance resist\$4) near3 remain\$4 near until | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 13:17 |
| S25 | 4 | S24 with (mode type) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 12:55 |
| S26 | 10 | S24 with (detect\$3 recogni\$5 determin\$4) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 12:57 |
| S27 | 542 | card near3 (remain\$4 held hold) near5 (detect\$3 determin\$4 recogni\$5) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 12:59 |

EAST Search History

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|-----|---------|---|------------------------------|----|-----|------------------|
| S28 | 262 | card near3 (remain\$4) near5 (detect\$3 determin\$4 recogni\$5) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 13:00 |
| S29 | 8 | card near3 (remain\$4) near5 (detect\$3 determin\$4 recogni\$5) near3 (until after) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 13:00 |
| S30 | 3082231 | remain\$4 until adj3 (detect\$3 determin\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 13:18 |
| S31 | 1691 | remain\$4 near3 until adj3 (detect\$3 determin\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 13:18 |
| S32 | 129 | remain\$4 near3 (until adj3 (detect\$3 determin\$3) near3 (card mode type)) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 13:22 |
| S33 | 7 | remain\$4 near3 (until adj3 (detect\$3 determin\$3) near3 (card type)) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 13:33 |
| S34 | 72647 | (determin\$4 select) near3 mode | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 13:37 |
| S35 | 1974 | S34 near5 (after until) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 13:43 |
| S36 | 13 | S34 near5 (after until) near5 full | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 13:47 |
| S37 | 27102 | full adj3 power | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 13:47 |
| S38 | 18218 | full adj power | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 13:47 |
| S39 | 3 | S38 near5 after adj3 (determin\$4 detect\$3 recogni\$5) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 13:51 |
| S40 | 139661 | select\$3 near3 resistance near3 after (determin\$4 select\$3) near3 mode | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 13:52 |
| S41 | 2 | (select\$3 near3 resistance) near3 (after near5 (determin\$4 select\$3) near3 mode) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 13:54 |
| S42 | 357 | (select\$3 near3 resistance) near3 (after near5 (determin\$4 select\$3)) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 13:55 |

EAST Search History

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|-----|-------|---|------------------------------|----|-----|------------------|
| S43 | 106 | (select\$3 near resistance) near3 (after near5 (determin\$4 select\$3)) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 13:55 |
| S44 | 62 | (select\$3 near resistance) near3 (after near3 (determin\$4 select\$3)) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 13:58 |
| S45 | 86 | (select\$3 near resist\$3) near3 (after near3 (determin\$4 select\$3)) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 13:59 |
| S46 | 0 | (select\$3 near resist\$3) near3 (after near3 (determin\$4 select\$3) near3 mode) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 13:59 |
| S47 | 86 | S45 not S44 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 14:00 |
| S48 | 2882 | low near resistance near value | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 14:01 |
| S49 | 46 | S48 near5 (before until after) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 15:09 |
| S50 | 2422 | after near3 select\$3 near3 mode | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 15:13 |
| S51 | 11 | S50 with resist\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 15:19 |
| S52 | 3 | S50 with impedance | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 15:44 |
| S53 | 1 | "20020091888" | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 15:45 |
| S54 | 2 | ("4972479" "5293109").pn. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 15:50 |
| S55 | 24 | interface near2 select\$3 near2 (resistance resistor) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 16:07 |
| S56 | 46101 | select\$3 near2 (resistance resistor) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 16:07 |
| S57 | 21659 | select\$3 near (resistance resistor) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 16:09 |

EAST Search History

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|-----|---------|--|------------------------------|----|-----|------------------|
| S58 | 0 | S57 near5 (mode near3 after) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 16:08 |
| S59 | 152 | S57 near5 (after) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 16:08 |
| S60 | 77 | S57 same (card (memory adj card)) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/08 16:10 |
| S61 | 318 | resistance near5 (based depend\$3) near3 mode | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 08:23 |
| S62 | 194 | S61 with (select\$3 choos\$3 adjust\$3 increas\$3 decreas\$3 lower\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 08:22 |
| S63 | 183 | S61 with (select\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 08:22 |
| S64 | 9 | select\$3 near (resistance near5 (based depend\$3) near3 mode) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 09:53 |
| S65 | 569 | determin\$3 near3 card near3 type | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 09:54 |
| S66 | 132 | S65 near5 (inserted connected attached) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 12:49 |
| S67 | 3883090 | (output\$4 adj low) with output\$4 high | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 12:50 |
| S68 | 5851 | (output\$4 adj low) with (output\$4 adj high) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 12:51 |
| S69 | 13377 | (output\$4 near low) with (output\$4 near high) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 12:52 |
| S70 | 96377 | determin\$4 near3 type | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 12:52 |
| S71 | 50468 | determin\$4 near3 mode | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 12:53 |
| S72 | 1076 | S70 same S71 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 12:53 |

EAST Search History

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|-----|-------|--|------------------------------|----|-----|------------------|
| S73 | 788 | S70 with S71 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 12:54 |
| S74 | 633 | S70 near5 S71 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 12:54 |
| S75 | 134 | (dual multi) adj (function mode) adj card | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 12:55 |
| S76 | 16 | S75 same determin\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 15:47 |
| S77 | 23070 | pull\$1up | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 15:47 |
| S78 | 9969 | pull\$1up adj resist\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 15:47 |
| S79 | 739 | S78 with low with high | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 15:48 |
| S80 | 32 | S79 with (select\$3 choos\$3 adjust\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 16:02 |
| S81 | 34 | S79 with mode | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 16:05 |
| S82 | 7400 | low near until | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 16:05 |
| S83 | 67 | S82 near5 mode | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 16:08 |
| S84 | 1 | S82 near5 (mode adj3 selected) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 16:09 |
| S85 | 28 | ((remain\$4 maintain\$3) near low) near5 (mode near select\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 16:20 |
| S86 | 83 | (remain\$4 maintain\$3) near3 until near3 (mode near select\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 16:40 |
| S87 | 3 | (remain\$4 maintain\$3) near until near (mode near select\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 16:24 |

EAST Search History

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|------|------|--|------------------------------|----|-----|------------------|
| S88 | 80 | S86 not S87 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 16:25 |
| S89 | 71 | (select\$3 near low) near5 until | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 16:41 |
| S90 | 91 | low near5 (until near2 selected) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 16:42 |
| S91 | 25 | low near (until near2 selected) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 16:45 |
| S92 | 461 | (low adj (resistance impedance)) near select\$3 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 16:48 |
| S93 | 149 | S92 with high | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/09 16:48 |
| S94 | 470 | variable adj2 resister | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 07:38 |
| S95 | 2 | S94 with ((before after upon until) near3 (select\$3 detect\$3 determin\$3)) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 07:41 |
| S96 | 0 | S94 with (mode near3 (select\$3 detect\$3 determin\$3)) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 07:41 |
| S97 | 58 | S94 with ((select\$3 detect\$3 determin\$3)) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 08:17 |
| S98 | 2 | S94 near5 ((mode)) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 08:18 |
| S99 | 8903 | (initial\$5 near3 low) with high | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 08:19 |
| S100 | 228 | (initial\$5 near3 low) near5 before | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 08:19 |
| S101 | 42 | S100 with high | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 08:26 |
| S102 | 179 | low adj3 until near5 (determined selected) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 08:27 |

EAST Search History

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|----------|-------|---|------------------------------|----|-----|------------------|
| S10 3 | 0 | low adj3 until near5 (determined near3 mode) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 08:27 |
| S10 4 | 0 | low adj3 until near5 (determin\$3 near3 mode) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 08:27 |
| S10 5 | 10 | low adj3 until near5 ((determin\$3 select\$3) near3 mode) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 08:59 |
| S10 6 | 185 | (low near resist\$4) near3 until | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 09:03 |
| S10 7 | 18 | S106 with (mode determin\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 09:03 |
| S10 8 | 365 | (low near (resist\$4 impedance)) near3 until | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 09:03 |
| S10 9 | 18 | S108 with (mode determin\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 09:03 |
| S11 0 | 0 | S109 not S107 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 09:04 |
| S11 1 | 720 | (resist\$4 impedance) near3 (remain\$4 held) near3 until | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 09:05 |
| S11 2 | 1 | S111 near5 (mode near3 (determin\$3 select\$3)) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 09:06 |
| S11 3 | 12 | S111 near5 ((determin\$3 select\$3)) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 09:21 |
| S11 4 | 42190 | second adj resist\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 09:34 |
| S11 5 | 0 | S114 near5 (after near3 (mode near3 (select\$3 determin\$3))) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 09:23 |
| S11 6 | 0 | S114 near5 ((after following) near3 (mode near3 (select\$3 determin\$3))) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 09:23 |
| S11 7 | 18 | S114 near5 (mode near3 (select\$3 determin\$3)) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 09:24 |

EAST Search History

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|----------|------|--|------------------------------|----|-----|------------------|
| S11 8 | 46 | first adj resist\$4 adj3 until | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 09:50 |
| S11 9 | 7585 | resist\$4 near3 mode | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 09:51 |
| S12 0 | 0 | (select\$4 determin\$3) near5 S118 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 09:52 |
| S12 1 | 555 | (select\$4 determin\$3) near5 S119 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 09:52 |
| S12 2 | 0 | (select\$3 near resist\$4) near5 (based near3 mode) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 09:53 |
| S12 3 | 139 | (select\$3 near resist\$4) near5 (mode) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 10:11 |
| S12 4 | 1 | "20050162224" | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 10:36 |
| S12 5 | 5554 | select\$3 near3 (resistivity (resistor near value)) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 10:37 |
| S12 6 | 0 | S125 near5 (after near3 mode) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 10:39 |
| S12 7 | 0 | S125 near5 ((after before) near3 mode) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 10:38 |
| S12 8 | 0 | S125 near5 ((after before until) near3 mode) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 10:39 |
| S12 9 | 25 | S125 near5 (mode) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 10:44 |
| S13 0 | 43 | low adj3 until adj5 determined | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 13:00 |
| S13 1 | 3327 | low near resist\$4 near value | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 13:00 |
| S13 2 | 2520 | low adj resist\$4 adj value | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 13:33 |

EAST Search History

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|----------|-------|--|------------------------------|----|-----|------------------|
| S13 3 | 6 | S132 near5 until\$1 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 13:17 |
| S13 4 | 30 | S132 near5 (mode determin\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 13:17 |
| S13 5 | 337 | (low adj resist\$4 adj value) with (high adj resist\$4 adj value) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 13:41 |
| S13 6 | 36 | S135 with (determin\$3 choos\$3 select\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 14:39 |
| S13 7 | 314 | (high adj resist\$4) near initial\$7 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 14:42 |
| S13 8 | 4 | (high adj resist\$4 adj value) near initial\$7 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 14:42 |
| S13 9 | 209 | (low adj resist\$4) near initial\$7 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 15:51 |
| S14 0 | 9 | (low adj resist\$4 adj value) near initial\$7 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 14:49 |
| S14 1 | 30 | S139 with (high adj resist\$4) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 15:43 |
| S14 2 | 0 | S139 same card | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 15:48 |
| S14 3 | 13 | S139 with (type function mode) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 15:48 |
| S14 4 | 75 | (low adj impedance) near initial\$7 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 15:52 |
| S14 5 | 24 | S144 with high | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 15:58 |
| S14 6 | 18007 | initial\$7 near low | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 15:58 |
| S14 7 | 0 | S146 near5 (determin\$3 near2 mode) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 15:59 |

EAST Search History

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|----------|-------|--|------------------------------|----|-----|------------------|
| S14 8 | 0 | S146 near5 (determin\$3 near3 mode) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:00 |
| S14 9 | 114 | S146 near5 (mode) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:00 |
| S15 0 | 30 | S149 with high | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:00 |
| S15 1 | 50381 | (determin\$3 near3 mode) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:03 |
| S15 2 | 33 | S151 with (switch\$3 chang\$3 transition\$3) near high | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:06 |
| S15 3 | 40006 | (remain\$4 held) near low | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:07 |
| S15 4 | 8 | S153 near5 (determin\$4 detect\$3) near (mode type) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:10 |
| S15 5 | 0 | low adj until near5 ((mode type) near3 determin\$4) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:14 |
| S15 6 | 1 | low adj until with ((mode type) near3 determin\$4) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:14 |
| S15 7 | 40006 | low near (remain\$4 held) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:15 |
| S15 8 | 142 | S157 near5 determined | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:17 |
| S15 9 | 1 | S158 with card | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:16 |
| S16 0 | 4462 | low adj until | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:18 |
| S16 1 | 40 | S160 with card | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:22 |
| S16 2 | 12 | S160 adj7 determined | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:24 |

EAST Search History

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|----------|------|---|------------------------------|----|-----|------------------|
| S16 3 | 2185 | mode adj determination | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:25 |
| S16 4 | 40 | S163 with low with high | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:32 |
| S16 5 | 1 | S163 with ((held hold\$3 remain\$3 constant\$3) near low) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:35 |
| S16 6 | 2541 | ((first initial\$3) near low) with (second near high) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:37 |
| S16 7 | 0 | S166 with (based near3 (mode type)) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:38 |
| S16 8 | 0 | ((select\$3 near low) near3 before with ((select\$3 near high) near5 after) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:39 |
| S16 9 | 1659 | ((select\$3 near low)) with ((select\$3 near high)) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:40 |
| S17 0 | 0 | S169 with (based near3 mode) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:39 |
| S17 1 | 1761 | low near5 (high near after) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:41 |
| S17 2 | 2 | S171 with card | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/13 16:41 |
| S17 3 | 26 | low near5 ((high near after) near3 (select\$3 determin\$3 detect\$3)) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 08:25 |
| S17 4 | 198 | (restor\$3 resum\$3) near5 after near2 determin\$3 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 08:30 |
| S17 5 | 185 | (restor\$3 resum\$3) near5 after adj3 determin\$3 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 08:26 |
| S17 6 | 2 | S175 adj5 (mode type function) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 08:27 |
| S17 7 | 10 | S175 with (mode type function) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 08:27 |

EAST Search History

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|----------|-------|--|------------------------------|----|-----|------------------|
| S17 8 | 596 | (restor\$3 resum\$3) near (resistance impedance) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 08:31 |
| S17 9 | 10 | S178 with mode | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 08:45 |
| S18 0 | 16 | S178 near5 (determin\$3 detect\$3 select\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 10:45 |
| S18 1 | 17 | S178 with type | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 08:46 |
| S18 2 | 7 | (restor\$3 resum\$3) near5 (after near3 mode near3 determin\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 10:48 |
| S18 3 | 359 | (determin\$3 detect\$3) near3 (card adj2 type) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 10:50 |
| S18 4 | 0 | S183 near5 (restor\$3 resum\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 10:50 |
| S18 5 | 17769 | (determin\$3 detect\$3) near3 (card) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 10:50 |
| S18 6 | 7204 | (determin\$3 detect\$3) near (card) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 10:51 |
| S18 7 | 20 | S185 near5 (restor\$3 resum\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 11:12 |
| S18 8 | 36695 | decreas\$3 near (resistance impedance) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 10:55 |
| S18 9 | 8 | S188 with until\$1 near5 (determin\$3 detect\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 11:00 |
| S19 0 | 1 | S188 with until\$1 near5 mode | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 10:59 |
| S19 1 | 262 | after adj2 S185 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 10:59 |
| S19 2 | 0 | S191 with increas\$3 near5 (resistance impedance) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 11:00 |

EAST Search History

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|----------|------|--|------------------------------|----|-----|------------------|
| S19 3 | 398 | S188 near5 until\$1 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 11:01 |
| S19 4 | 1 | S193 near5 (mode type) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 11:02 |
| S19 5 | 7 | S193 near5 (determin\$3 detect\$3 select\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 11:03 |
| S19 6 | 694 | after adj3 (card near3 (detect\$3 determin\$3 select\$3)) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 11:05 |
| S19 7 | 7 | S196 near5 (increas\$3 rais\$3 restor\$3 resum\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 11:05 |
| S19 8 | 61 | S185 near5 increas\$3 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 11:32 |
| S19 9 | 131 | S185 near5 (resist\$4 impedance) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 12:31 |
| S20 0 | 61 | S185 near5 (resistance impedance) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 11:35 |
| S20 1 | 1 | S185 near5 increas\$3 near5 (resistance impedance) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 12:32 |
| S20 2 | 5 | S185 near5 (increas\$3 decreas\$3) near5 (resist\$4 impedance) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 12:32 |
| S20 3 | 4 | S185 near5 (increas\$3 decreas\$3) near5 (resistance impedance) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 12:35 |
| S20 4 | 9972 | pull\$1up adj resist\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 12:36 |
| S20 5 | 3 | S204 near5 (based depend\$4 correspond\$4) near3 mode | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 14:24 |
| S20 6 | 137 | S204 near5 mode | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 14:03 |
| S20 7 | 2 | S206 with (increas\$3 decreas\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 13:08 |

EAST Search History

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|----------|-----|---|------------------------------|----|-----|------------------|
| S20 8 | 93 | S204 near3 mode | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 14:31 |
| S20 9 | 1 | "7009846".pn. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 14:24 |
| S21 0 | 54 | (\$2creas\$3) near3 pull\$1up adj3 resist\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 14:41 |
| S21 1 | 2 | S210 with mode | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 14:32 |
| S21 2 | 0 | S210 with type | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 14:32 |
| S21 3 | 0 | sd&1mmc | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 14:42 |
| S21 4 | 56 | sd\$1mmc | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 14:42 |
| S21 5 | 3 | S214 and (resistance impedance) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 14:48 |
| S21 6 | 1 | "20030080891" | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 15:52 |
| S21 7 | 0 | (select\$3 near low) with (until adj3 mode) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 15:54 |
| S21 8 | 85 | (low) with (until adj3 mode) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 16:27 |
| S21 9 | 241 | initial near low adj resist\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 16:35 |
| S22 0 | 0 | S219 with card | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 16:37 |
| S22 1 | 27 | S219 with power\$3 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 16:28 |
| S22 2 | 9 | S219 near5 connect\$3 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 16:35 |

EAST Search History

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|----------|-----|--------------------------------|------------------------------|----|-----|------------------|
| S22 3 | 0 | S219 same card | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 16:37 |
| S22 4 | 155 | low adj initial adj resistance | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/15 07:51 |
| S22 5 | 0 | S224 with plugged | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 16:38 |
| S22 6 | 0 | S224 with coupled | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 16:38 |
| S22 7 | 17 | S224 with connect\$3 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 16:38 |
| S22 8 | 18 | S224 with connect\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/03/14 16:39 |